

"Lauzon, James" <James.Lauzon@veoliawate rna.com>

04/07/2005 10:17 AM

To "Shepherd, Joseph (DEP)" <Joseph.Shepherd@state.ma.us>, "David R. Burns (david.burns@state.ma.us)" <david.burns@state.ma.us>,

cc mthoreson@ci.brockton.ma.us, dnorton@ci.brockton.ma.us, "eczaja@ci.brockton.ma.us" <eczaja@ci.brockton.ma.us>, "Kiani, Farzin" <farzin.kiani@veoliawaterna.com>

bcc

Subject

Gentlemen:

Please find, attached, the Notification of Exceedence form for Permit exceptions attributable to high flows. There were 4 Loadings violations, two for TSS and two for CBOD. There was also a weekly violation for TSS and CBOD that will be reported on April's DMR.

Should you have any questions or concerns, please feel free to contact me at your earliest convenience.

James Lauzon
Project Manager
Veolia Water North America
303 Oak Hill Way
Brockton, MA 02301
508-580-7885 X 112
508-559-0760 FAX
james.lauzon@veoliawaterna.com

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25.0

DEP Violation Notificiation-4~7~05.doc



Joseph J. Shepherd Department of Environmental Protection Southeast Region 20 Riverside Drive Lakeville, MA 02347

Subject:

Brockton Wastewater Treatment Facility

Notification of Unauthorized Discharge or Bypass Report/Notification of Permit

Exceedence

Dear Mr. Shepherd:

In accordance with Department of Environmental Protection policy, we are formally providing required written notification of the following:

1. Notification of Unauthorized Discharge or Bypass Report

2. Notification of Permit Exceedence

The following notification has been made:

	Person Contacted	By Email	Date/Time	By Fax	Date/Time
MADE	PJoseph Shepherd	X	4/7/05 / 10:15 am	X	10:25 am
	David Burns	X	4/7/05 / 10:15 am		
EPA	Steven Couto	X	4/7/05 / 10:15 am	X	10:25 am

Description and cause of noncompliance:

TSS Lbs./D - Max. Daily 3/28 = 7963	(4500 lbs/day limit) 22 TSS - 43.4 MGD
TSS Lbs./D - Max. Daily 3/29 = 9744	(4500 lbs/day limit) 23 TSS - 50.8 MGD
	(4500 lbs/day limit) 14 CBOD - 27.0 MGD
CBOD Lbs/D - Max. Daily 3/29 = 6349	(4500 lbs/day limit) 15 CBOD - 50.8 MGD

On March 28, 2005, we received 4.22" of rain inside of 8 hours time. The receiving waters breached the chlorine contact tanks resulting in sampling some silt-laden river water and some contamination of same with primary effluent. Based on the best information and technology available to us, the TSS values for the 28th and 29th, respectively, were 22 and 23 mg/l.

James M. Lauzon Title: **Project Manager**

Steven Couto, USEPA David Burns, MADEP

Michael Thoreson, Brockton DPW Commissioner David Norton, Brockton W&S Contract Admin. Elaine Czaja, DPW Admin. Asst., City of Brockton

Farzin Kiani, VWNA Business Manager





"Lauzon, James" <James.Lauzon@veoliawate rna.com>

03/29/2005 01:41 PM

To "Shepherd, Joseph (DEP)"
<Joseph.Shepherd@state.ma.us>, "David R. Burns
(david.burns@state.ma.us)" <david.burns@state.ma.us>,
cc "Michael Thoreson" <mthoreson@ci.brockton.ma.us>,

"Michael Thoreson" <mthoreson@ci.brockton.ma.us>,
"Norton David" <dnorton@ci.brockton.ma.us>, "Kiani,
Farzin" <farzin.kiani@veoliawaterna.com>

bcc

Subject Storm event

History:

This message has been forwarded.

Gentlemen:

The flow went over 60 mgd late this morning. The TSS was 28 mg/l for yesterday. We will definitely have loadings violations for a few days, regardless of the TSS levels. We will keep you apprised.

James Lauzon
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"Lauzon, James" <James.Lauzon@veoliawate rna.com>

03/29/2005 07:56 AM

To "Shepherd, Joseph (DEP)"

<Joseph.Shepherd@state.ma.us>, "David R. Burns
(david.burns@state.ma.us)" <david.burns@state.ma.us>,
cc "Michael Thoreson" <mthoreson@ci.brockton.ma.us>,

"Michael Thoreson" <mthoreson@ci.brockton.ma.us>,
"Norton David" <dnorton@ci.brockton.ma.us>, "Kiani,
Farzin" <farzin.kiani@veoliawaterna.com>

bcc

Subject Storm event

History:

This message has been forwarded.

The Brockton AWRF is receiving flows of 54 mgd. The river depth has equalized the water level at the effluent end of the chlorine contact tanks. We have begun chlorinating / dechlorinating. We will forward TSS concentrations when they become available. The rainfall measured at the facility was 4.2" over the last 24 hours.

Should you have any questions, please feel free to contact me at your earliest convenience.

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By: James M. Lauzon Title: **Project Manager**

CC: Steven Couto, USEPA David Burns, MADEP

Michael Thoreson, Brockton DPW Commissioner David Norton, Brockton W&S Contract Admin. Elaine Czaja, DPW Admin. Asst., City of Brockton Farzin Kiani, VWNA Business Manager





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	David Burns	X	1/12/05 / 9:35 a	am	
EPA	Steven Couto	X	1/12/05 / 9:35 a	m X	9:45 am

Description and cause of noncompliance:

TSS Lbs./day - Max. Daily 1/4	= 6022 (4500 lbs/day limit)	29 TSS - 24.9 MGD
TSS Lbs./day - Max. Daily 1/9	= 6538 (4500 lbs/day limit)	28 TSS - 28.0 MGD
TSS Lbs./day - Max. Daily 1/10	= 5629 (4500 lbs/day limit)	25 TSS - 27 0 MGD

On Monday January 3, 2005, we began taking South aeration basin #2 offline for the Phase 1 General Contractor. We transferred the biomass directly to North Aeration basins #3&4. The transfer was completed without incident but it appears the mass did not adapt well to it's new environment. Although we did not exceed our TSS concentration limit of 30 mg/l on any of the 3 days, high flows due to recent rain events and winter thaw caused daily loading exceedences.

By: James M. Lauzon
Title: Project Manager

cc: Steven Couto, USEPA
David Burns, MADEP
Michael Thoreson, Brockton DPW Commissioner
David Norton, Brockton W&S Contract Admin.
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James M. Lauzon Project Manager Title:

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VEOLIA WATER NORTH AMERICA 303 Oak Hill Way Brockton, MA 02301 Tel.:508-580-7885 X 116 Fax:508-559-0760

Fax			
то:	Steven Costo Couto	w	
FAX:	617-918-1810		
FROM:	Kathy Ferrara		
DATE:	1-12-05		
SUBJECT:	Permit Exceedence		
PAGES:	2.		
Including this page			
1000			
• • • • • • • • • • • • • • • • • • • •			<u> </u>

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VEOLIA WATER NORTH AMERICA 303 Oak Hill Way Brockton, MA 02301 Tej 508-580-7885





"Lauzon, James" <James.Lauzon@veol iawaterna.com>

01/05/2005 08:09 AM

To: "Joseph Shepherd (joseph.shepherd@state.MA.US)" <joseph.shepherd@state.MA.US>, Steven

Couto/R1/USEPA/US@EPA, "david.burns@state.ma.us"
cc: "'Dave Norton (E-mail)" <dnorton@ci.brockton.ma.us>, "Kiani, Farzin" <farzin.kiani@veoliawaterna.com>, "'Mike Thoreson'" <mthoreson@ci.brockton.ma.us>

Subject: Process Alterations

Gentlemen:

We will be taking our south side aeration basins off-line today to prepare for construction-related activities. While we have tried to develop the best strategy to perform the operation with as little environmental impact as possible, high flows due to precipitation and snow melting could pose a challenge problem. We will do everything possible to try to remain in compliance through this necessary operational change. We will notify you immediately if there are any Permit compliance exceptions.

Thank you

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01/05/2005 08:09 AM

To: "Joseph Shepherd (joseph.shepherd@state.MA.US)" <joseph.shepherd@state.MA.US>, Steven

Couto/R1/USEPA/US@EPA, "'david.burns@state.ma.us'"
cc: "Dave Norton (E-mail)" <dnorton@ci.brockton.ma.us>, "Kiani, Farzin"
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November 3, 2004

Robin E. Neas, Environmental Protection Specialist Water Technical Unit (SEW) U.S. Environmental Protection Agency P.O. Box 8127 Boston, MA. 02114

Dear Ms. Neas:

Subject: Brockton, MA NPDES Permit no. MA 0101010 Annual Chlorination System Report

In accordance with the requirements of the subject NPDES Permit, Part 1, Paragraph E4, Chlorination System Report, we are submitting this report for the period November 1, 2003 through October 31,2004.

One exceedence of effluent TRC was reported during the subject period.

Three exceedances of Fecal Coliform were reported during this period. Please refer to the chart below for specifics.

Date	Violation	Residual	Post	Sodium	Plant
	(#/100)	(mg/l)	Chlorination	Hypochlorite	Flow
			Residual	Feed	(mgd)
			(mg/l)	(gals/day)	
April 4,2004	2167	0.35	0	242	27.3
April 14, 2004	2113	0.42	0	187	40.3
April 15, 2004	N/A	0.42	0.16	183	38.7
July 7, 2004	580	0.16	0	73	12.7



November 1, 2004 Robin Neas, U.S.E.P.A Page 2

2004 NOV -4 P 8: 26

During the month of April 2004, there was significant rainfall (7.74 ") which resulted in very high flows. The high flows significantly contributed to the two (2) April fecal coliform exceedences as well as the Chlorine Residual exceedence. The July Fecal Coliform exceedence was attributable to a mechanical failure of the Hypochlorite feed pump.

If you should have any questions or need any further assistance please contact my office @ (508) 580 – 7885 X 112.

Sincerely,

James M. Lauzon Project Manager

JML/kmf

cc: Michael L. Thoreson, DPW Commissioner

David A. Norton, Water & Sewer Contract Administrator

MA DEP, Bureau Resource Protection Lakeville

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	POCHLORITE	USE	COLIFORM	
	w/o recycle	Final Effluent	Contact Tank	Sand Filters	Contact Tanks	Total	Final Effluent	
14/04/00	mgd	mg/L	mg/L	gpd	gpd	gpd	#/100ml	
11/01/03	17.6	0.0	0.35	137		137		
11/02/03	18.7	0.0	0.35	137		137		
11/03/03	18.4	0.0	0.35	135		135		
11/04/03	17.8	0.0	0.40	119		119		
11/05/03	17.8	0.0	0.24	112		112		
11/06/03	16.8			William Control				
11/07/03	17.0							
11/08/03	18.6							
11/09/03	17.4							
11/10/03	16.2							
11/11/03	16.6		1000			E 7,453		
11/12/03	14.8							
11/13/03	16.3		14 14 14					
11/14/03	16.1				Tarana Vol.			
11/15/03	16.0							
11/16/03	15.9							
11/17/03	15.9							
11/18/03	15.8							
11/19/03	15.5	98 1 12 10						
11/20/03	16.1							
11/21/03	15.5							
11/22/03	16.7							
11/23/03	16.5	1000						
11/24/03	16.2							
11/25/03	16.3							
11/26/03	16.4							
11/27/03	16.2							
11/28/03	15.9						-	
11/29/03	17.3					78/23		
11/30/03	14.7							
11/30/03	14.7							
Minimum	14.7	0.0	0.24	112		112		
Average	16.6	0.0	0.34	128		128	G	
Maximum	18.7	0.0	0.40	137		137		
Total	496.8			640		640		

26

Mean

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	POCHLORITE	USF	COLIFORM	FORM		
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total	? Final V			
12/01/03	16.2			gp.u	gpu	gpd	#/100ml			
12/02/03	15.8									
12/03/03	15.6						12			
12/04/03	15.7									
12/05/03	15.4									
12/06/03	14.7									
12/07/03	17.0						100000000000000000000000000000000000000			
12/08/03	18.0									
12/09/03	16.6						E. C. C.			
12/10/03	17.5									
12/11/03	29.9				1400					
12/12/03	30.9									
12/13/03	27.0									
12/14/03	27.7									
12/15/03	42.0									
12/16/03	33.9									
12/17/03	40.0									
12/18/03	42.8		1							
12/19/03	35.6									
12/20/03	32.0		19.0							
12/21/03	30.0									
12/22/03	28.0									
12/23/03	27.0									
12/24/03	27.1									
12/25/03	27.6									
12/26/03	27.2				278-14					
12/27/03	26.0									
12/28/03	25.6					-				
12/29/03	21.3									
12/30/03	22.8									
12/31/03	22.4	Site of the second								
Minimum	14.7									
Average	25.5					2 7 10				
laximum	42.8						G	eo Mean		
Total										
I Olai	789.5									

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFORM			
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total	Final Effluent #/100ml	NOV -4	P 8:	26
01/01/04	20.8									
01/02/04	22.0									
01/03/04	22.4						The spring of the			
01/04/04	22.4									
01/05/04	23.2									
01/06/04	24.1									
01/07/04	23.8		23/45		Proc. 100 - 10					
01/08/04	21.8				San Trans					
01/09/04	21.7									
01/10/04	22.3									
01/11/04	23.0									
01/12/04	20.2									
01/13/04	20.5									
01/14/04	19.8									
01/15/04	19.4									
01/16/04	18.3	3 - 14 - 17								
01/17/04	18.5									
01/18/04	16.4				- 22.834					
01/19/04	16.9									
01/20/04	17.6									
01/21/04	17.3									
01/22/04	17.5									
01/23/04	16.7									
01/24/04	17.2									
01/25/04	15.1									
01/26/04	16.9									
01/27/04	16.1					All Treat				
01/28/04	16.2						122 34 25 15			
01/29/04	15.8									
01/30/04	17.0									
01/31/04	17.6									
Minimum	15.1									
Average	19.3						Ge	o Mean		
Maximum	24.1									
Total	598.4									

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFORM		
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total		004 NOV -4 P 8: 2b	
02/01/04	16.5	-		31-	31-	31-			
02/02/04	16.1	THE RESERVE DE LA CONTRACTOR DE LA CONTR							
02/03/04	17.5								
02/04/04	16.8		W. 1. 1965						
02/05/04	14.9								
02/06/04	19.0	F 12							
02/07/04	20.9								
02/08/04	18.5								
02/09/04	17.6	- LG 25-				3.00			
02/10/04	16.1								
02/11/04	18.1								
02/12/04	16.9								
02/13/04	17.3			Charles .					
02/14/04	16.3								
02/15/04	14.6								
02/16/04	16.9			7 (100)					
02/17/04	16.7								
02/18/04	15.3								
02/19/04	15.6	THE VALLEY	633	Tar bed					
02/20/04	15.5								
02/21/04	16.3								
02/22/04	15.6								
02/23/04	16.1								
02/24/04	16.0								
02/25/04	15.1								
02/26/04	15.0		1						
02/27/04	15.2					V			
02/28/04	15.8								
02/29/04	15.3								
Minimum	14.6								
Average	16.5							Geo Mean	
Maximum	20.9								
Total	477.7								

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFORM
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total	Final Effluent #/100ml
03/01/04	16.2						A STATE OF THE STATE OF
03/02/04	14.3	Maria Cara	* A				
03/03/04	15.2	AV-10-10-10-10					
03/04/04	15.8						
03/05/04	16.4						
03/06/04	16.8						
03/07/04	16.7						39
03/08/04	16.3						and the second
03/09/04	16.3						
03/10/04	15.6			The Marie To			
03/11/04	16.1		7				
03/12/04	15.4				97.7		
03/13/04	17.0						
03/14/04	15.6						
03/15/04	17.5						
03/16/04	15.0						
03/17/04	15.7						
03/18/04	13.4						
03/19/04	14.0						
03/20/04	14.7						
03/21/04	16.2						
03/22/04	15.2						
03/23/04	15.6						
03/24/04	15.3						
03/25/04	14.8						
03/26/04	15.7						
03/27/04	16.8						+
03/28/04	14.9						
03/29/04	15.5						
03/30/04	14.2						
03/31/04	16.5						
Minimum	13.4						
Average	15.6						
Maximum	17.5						9
Total	484.9						

2004 NOV -4 P 8: 26

Geo Mean

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFORM
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total	Final Effluent #/100ml
04/01/04	35.5	0.0	0.44		133	133	
04/02/04	38.3	0.0	0.34		168	168	
04/03/04	33.0	0.0	0.35		171	171	
04/04/04	30.9	0.0	0.35		173	173	
04/05/04	29.7	0.0	0.34		192	192	1 3.843
04/06/04	27.3	0.0	0.35		242	242	2,167
04/07/04	25.7	0.0	0.37	B BLAT	294	294	14
04/08/04	24.6	0.0	0.48		246	246	
04/09/04	22.7	0.0	0.56		130	130	178
04/10/04	18.1	0.0	0.40		114	114	
04/11/04	22.4	0.0	0.47	7 7 7 7	101	101	
04/12/04	21.0	0.0	0.46		162	162	
04/13/04	33.8	0.0	0.46		112	112	17
04/14/04	40.3	0.0	0.32		214	214	2,113
04/15/04	38.7	0.2	0.42		183	183	187
04/16/04	32.3	0.0	0.36		153	153	
04/17/04	29.5	0.0	0.36		167	167	
04/18/04	26.5	0.0	0.48		162	162	
04/19/04	25.0	0.0	0.37		175	175	
04/20/04	25.2	0.0	0.37		131	131	32
04/21/04	25.6	0.0	0.42		131	131	18
04/22/04	24.1	0.0	0.37		164	164	64
04/23/04	24.5	0.0	0.40		149	149	
04/24/04	23.3	0.0	0.37		137	137	
04/25/04	21.5	0.0	0.42		109	109	
04/26/04	23.6	0.0	0.44		132	132	
04/27/04	25.2	0.0	0.37	liva in	104	104	12
04/28/04	24.0	0.0	0.40		102	102	11
04/29/04	22.6	0.0	0.39		96	96	7
04/30/04	22.3	0.0	0.36		104	104	
Minimum	18.1	0.0	0.32		96	96	7
Average	27.2	0.0	0.40		155	155	57
Maximum	40.3	0.2	0.56		294	294	2,167
Total	817.3	0.2	0.00		4,651	4,651	2,107

2004 NOV -4 P 8: 26

Geo Mean

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFORM		
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total		4 NOV -4	P 8:
05/01/04	22.0	0.0	0.35		99	99			
05/02/04	21.9	0.0	0.35		96	96			
05/03/04	22.8	0.0	0.36		74	74			
05/04/04	22.4	0.0	0.30		87	87	6		
05/05/04	21.5	0.0	0.27		101	101	24		
05/06/04	19.6	0.0	0.26		100	100	27		
05/07/04	19.6	0.0	0.20		88	88			
05/08/04	20.6	0.0	0.27		99	99	15.00		
05/09/04	20.7	0.0	0.32		104	104			
05/10/04	21.2	0.0	0.17		85	85			
05/11/04	19.5	0.0	0.21		91	91	6		
05/12/04	20.2	0.0	0.22	7000	123	123	9		
05/13/04	16.4	0.0	0.23		105	105	11		
05/14/04	18.2	0.0	0.26		101	101			
05/15/04	17.5	0.0	0.27		104	104			
05/16/04	16.6	0.0	0.24		87	87			
05/17/04	14.8	0.0	0.21		147	147			
05/18/04	16.4	0.0	0.25		100	100	33		
05/19/04	15.6	0.0	0.15		70	70	158		
05/20/04	15.0	0.0	0.14		78	78	43		
05/21/04	14.7	0.0	0.19		98	98			
05/22/04	15.7	0.0	0.31		105	105			
05/23/04	17.2	0.0	0.24		74	74			
05/24/04	14.9	0.0	0.24		68	68			
05/25/04	14.8	0.0	0.26	7	70	70	10		
05/26/04	15.1	0.0	0.19		52	52	16		
05/27/04	15.2	0.0	0.21	Section 1	76	76	83		
05/28/04	16.1	0.0	0.18		70	70			
05/29/04	14.4	0.0	0.26		93	93			
05/30/04	14.8	0.0	0.21		71	71			
05/31/04	14.8	0.0	0.18		97	97			
Minimum	14.4	0.0	0.14		52	52	6		
Average	17.8	0.0	0.24		91	91	21	Geo Mean	
Maximum	22.8	0.0	0.36		147	147	158		
Total	550.3				2,813	2,813			

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	POCHLORITE	USE	COLIFORM
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total	Final Effluent #/100ml
06/01/04	14.9	0.0	0.24		94	94	16
06/02/04	16.6	0.0	0.21	THE DESI	106	106	56
06/03/04	15.1	0.0	0.24		86	86	28
06/04/04	16.0	0.0	0.15		98	98	
06/05/04	16.0	0.0	0.21		84	84	
06/06/04	17.8	0.0	0.23		73	73	
06/07/04	17.7	0.0	0.17	· W. 1 - W. L. (Mar.)	94	94	
06/08/04	15.7	0.0	0.28		100	100	18
06/09/04	14.9	0.0	0.17		75	75	87
06/10/04	14.7	0.0	0.20		70	70	50
06/11/04	14.6	0.0	0.19		87	87	
06/12/04	14.9	0.0	0.20		79	79	
06/13/04	15.3	0.0	0.18		75	75	
06/14/04	14.8	0.0	0.22		87	87	
06/15/04	13.8	0.0	0.19	02-1-2	72	72	30
06/16/04	14.1	0.0	0.22	MATERIAL TO THE	81	81	24
06/17/04	13.7	0.0	0.18		98	98	18
06/18/04	13.6	0.0	0.20		77	77	
06/19/04	13.3	0.0	0.20		74	74	
06/20/04	13.2	0.0	0.21		67	67	
06/21/04	13.4	0.0	0.19		80	80	
06/22/04	13.7	0.0	0.19		77	77	31
06/23/04	13.0	0.0	0.24		95	95	38
06/24/04	13.5	0.0	0.20		94	94	34
06/25/04	12.7	0.0	0.24		69	69	
06/26/04	12.2	0.0	0.20		60	60	
06/27/04	13.0	0.0	0.21	11-1-27	57	57	
06/28/04	13.3	0.0	0.20		58	58	
06/29/04	13.9	0.0	0.17		67	67	28
06/30/04	12.4	0.0	0.19		92	92	44
Minimum	12.2	0.0	0.15		57	57	16
Average	14.4	0.0	0.20		81	81	32
Maximum	17.8	0.0	0.28		106	106	87
Total	431.5				2,426	2,426	

2004 NOV -4 P 8: 26

Geo Mean

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFORM
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total gpd	Final Effluent #/100ml
07/01/04	13.2	0.0	0.23		67	67	37
07/02/04	11.7	0.0	0.19		81	81	
07/03/04	12.4	0.0	0.20		88	88	
07/04/04	11.7	0.0	0.21		62	62	
07/05/04	13.6	0.0	0.21		103	103	
07/06/04	12.3	0.0	0.23		78	78	45
07/07/04	12.7	0.0	0.16		73	73	580
07/08/04	11.2	0.0	0.25		97	97	84
07/09/04	12.3	0.0	0.20		60	60	1
07/10/04	12.4	0.0	0.24		62	62	- 2.2
07/11/04	12.3	0.0	0.16		37	37	
07/12/04	12.4	0.0	0.21		59	59	
07/13/04	13.0	0.0	0.24		81	81	23
07/14/04	12.8	0.0	0.24		110	110	26
07/15/04	13.0	0.0	0.26		112	112	33
07/16/04	11.8	0.0	0.21		86	86	
07/17/04	12.4	0.0	0.27		112	112	
07/18/04	12.7	0.0	0.23		103	103	
07/19/04	12.3	0.0	0.27		110	110	
07/20/04	12.6	0.0	0.22		102	102	25
07/21/04	12.1	0.0	0.23		85	85	24
07/22/04	12.9	0.0	0.21		93	93	46
07/23/04	11.8	0.0	0.25		138	138	
07/24/04	13.7	0.0	0.17		113	113	
07/25/04	12.2	0.0	0.33		133	133	
07/26/04	12.7	0.0	0.23		134	134	
07/27/04	12.1	0.0	0.22		70	70	32
07/28/04	13.1	0.0	0.24		70	70	42
07/29/04	12.1	0.0	0.24		98	98	16
07/30/04	12.4	0.0	0.23		120	120	
07/31/04	10.8	0.0	0.23		91	91	
Minimum	10.8	0.0	0.16		37	37	16
Average	12.4	0.0	0.23		91	91	41
Maximum	13.7	0.0	0.33		138	138	580
Total	384.6				2,828	2,828	

2004 NOV -4 P 8: 26

Geo Mean

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	POCHLORITE	USE	COLIFORM	
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total gpd	Final Effluent #/100ml	2004 NOV -4
08/01/04	12.1	0.0	0.20		94	94		
08/02/04	12.3	0.0	0.18		74	74		
08/03/04	11.7	0.0	0.20	7 19 19 19	56	56	38	
08/04/04	12.7	0.0	0.23		70	70	19	
08/05/04	14.4	0.0	0.21		83	83	118	
08/06/04	12.6	0.0	0.20		91	91		
08/07/04	12.3	0.0	0.23		154	154		
08/08/04	12.7	0.0	0.26		155	155		
08/09/04	11.2	0.0	0.29		136	136	The state of the state of	
08/10/04	12.0	0.0	0.20		101	101	49	
08/11/04	12.3	0.0	0.20		90	90	44	
08/12/04	12.1	0.0	0.19		105	105	85	
08/13/04	13.6	0.0	0.22		128	128		
08/14/04	12.7	0.0	0.22		116	116		
08/15/04	18.3	0.0	0.26		126	126		
08/16/04	14.5	0.0	0.21	0	71	71		
08/17/04	14.0	0.0	0.20	0	117	117	40	
08/18/04	14.0	0.0	0.26		121	121	134	
08/19/04	13.9	0.0	0.24		133	133	86	
08/20/04	13.3	0.0	0.22		105	105		
08/21/04	15.0	0.0	0.27		132	132		
08/22/04	15.0	0.0	0.33		139	139		
08/23/04	14.6	0.0	0.21		101	101		
08/24/04	14.2	0.0	0.31		138	138	94	1
08/25/04	14.0	0.0	0.25		117	117	30	
08/26/04	13.3	0.0	0.28		95	95	98	
08/27/04	13.4	0.0	0.26		77	77	The state of the state of	
08/28/04	12.9	0.0	0.28		54	54		
08/29/04	14.2	0.0	0.34		76	76		
08/30/04	12.8	0.0	0.23		75	75		
08/31/04	14.1	0.0	0.29		58	58	122	
Minimum	11.2	0.0	0.18	0	54	54	19	
Average	13.4	0.0	0.24	0	103	103	63	Geo Mean
Maximum	18.3	0.0	0.34	0	155	155	134	
Total	416.1			0	3,188	3,188		

8: 26

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE	USE	COLIFOR	
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total gpd	Final Effluent #/100ml	
09/01/04	12.5	0.0	0.24	47	35	82	62	
09/02/04	11.3	0.0	0.23	47	50	97	166	
09/03/04	11.7	0.0	0.21	47	64	111		
09/04/04	11.6	0.0	0.22	47	45	92		
09/05/04	11.4	0.0	0.22	47	52	99		
09/06/04	12.5	0.0	0.25	76	69	145	1 322 15	
09/07/04	12.1	0.0	0.22	85	16	101	27	
09/08/04	11.8	0.0	0.27	68	93	161	19	
09/09/04	13.4	0.0	0.19	56	99	155	22	
09/10/04	12.0	0.0	0.21	64	74	138		
09/11/04	12.1	0.0	0.18	64	74	138	1-4-	
09/12/04	12.3	0.0	0.22	125	108	233		
09/13/04	12.4	0.0	0.29	62	106	168		
09/14/04	13.3	0.0	0.27	62	97	159	14	
09/15/04	12.5	0.0	0.24	62	90	152	24	
09/16/04	12.7	0.0	0.26	60	91	151	19	
09/17/04	11.9	0.0	0.22	62	70	132		
09/18/04	17.2	0.0	0.24	62	104	166		
09/19/04	13.2	0.0	0.22	64	104	168		
09/20/04	12.8	0.0	0.20	69	104	173		
09/21/04	13.7	0.0	0.23	64	112	176	18	
09/22/04	11.8	0.0	0.22	62	115	177	52	
09/23/04	12.8	0.0	0.22	62	102	164	12	
09/24/04	12.2	0.0	0.23	62	88	150		
09/25/04	11.9	0.0	0.28	62	116	178	1	
09/26/04	12.7	0.0	0.23	62	125	187		
09/27/04	12.6	0.0	0.23	62	105	167		
09/28/04	14.9	0.0	0.20	62	124	186	10	
09/29/04	17.4	0.0	0.19	62	145	207	37	
09/30/04	14.5	0.0	0.22	62	117	179	13	
Minimum	11.3	0.0	0.18	47	16	82	10	
Average	12.8	0.0	0.10	63	90	153	25	
Maximum	17.4	0.0	0.29	125	145	233	166	
Total	385.0	0.0	0.20	1,898	2,694	4,592	100	

2004 NOV -4 P 8: 26

Geo Mean

Page 1 of 1

DATE	FLOW	CHLORINE	RESIDUAL	HYF	OCHLORITE		COLIFORM
	w/o recycle	Final Effluent mg/L	Contact Tank mg/L	Sand Filters gpd	Contact Tanks gpd	Total	Final Effluent #/100ml
10/01/04	16.1	0.0	0.30	62	100	162	
10/02/04	15.4	0.0	0.26	62	88	150	
10/03/04	15.0	0.0	0.29	62	108	170	
10/04/04	14.2	0.0	0.22	62	76	138	
10/05/04	13.7	0.0	0.23	62	62	124	10
10/06/04	14.2	0.0	0.26	62	51	113	11
10/07/04	14.0	0.0	0.25	53	58	111	21
10/08/04	12.3	0.0	0.29	62	64	126	
10/09/04	12.9	0.0	0.28	62	73	135	
10/10/04	13.3	0.0	0.26	62	81	143	
10/11/04	14.1	0.0	0.26	62	76	138	
10/12/04	14.2	0.0	0.28	62	85	147	11
10/13/04	14.7	0.0	0.20	62	67	129	14
10/14/04	14.4	0.0	0.29	62	61	123	10
10/15/04	15.5	0.0	0.22	62	50	112	
10/16/04	14.8	0.0	0.20	62	78	140	
10/17/04	14.3	0.0	0.29	62	109	171	
10/18/04	13.9	0.0	0.26	62	76	138	
10/19/04	12.9	0.0	0.23	62	84	146	15
10/20/04	14.6	0.0	0.23	62	83	145	4
10/21/04	14.4	0.0	0.26	62	109	171	13
10/22/04	14.2	0.0	0.26	62	81	143	
10/23/04	14.8	0.0	0.30	62	84	146	
10/24/04	14.4	0.0	0.25	62	114	176	
10/25/04	14.2	0.0	0.30	62	92	154	
10/26/04	15.0	0.0	0.21	62	73	135	19
10/27/04	14.0	0.0	0.24	62	88	150	24
10/28/04	14.1	0.0	0.19	62	97	159	20
10/29/04	14.6	0.0	0.23	62	111	173	
10/30/04	15.0	0.0	0.26	62	118	180	
10/31/04	14.3	0.0	0.26	62	87	149	
Minimum	12.3	0.0	0.19	53	50	111	4
Average	14.3	0.0	0.25	62	83	145	13
Maximum	16.1	0.0	0.30	62	118	180	24
Total	443.4			1,913	2,584	4,497	

2004 NOV -4 P 8: 26

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